

IN THE SPECIFICATION

Replace paragraphs [0024] and [0038] with the following:

--[0024]

In the volumetric flow calculating circuit 25, the obtained flow profile is integrated over the cross-section perpendicular to the center axis 5 of the pipe 2. By this means, the flowrate_volumetric flow of the measurement object fluid 10 at a given time can be obtained.

Fig. 5 is a flow chart showing processing for measuring the volumetric flow of a measurement object fluid by the pulse doppler method. The chain of processing of the measurement object fluid volumetric flow measurement is realized by a CPU executing a program stored in a memory or the like not shown in the figure.--

--[0038]

In step S406, from the data obtained by step S401 through step S405, the flow profile on the opposite side of the center axis 5 of the pipe from the ultrasonic transducer 3a is calculated. Similarly, in step S407, from the wave received at the ultrasonic transducer 3b, a flow profile of the measurement object fluid 10 on the opposite side of the center axis 5 from the side on which the ultrasonic transducer 3b is disposed is obtained. Incidentally, in relation to step S406 and step S407, the order of the processing is not limited to the procedure of Fig. [[4]] 7. Alternatively the processing of step S407 may be carried out first and then the processing of step S406 carried out afterward.--

Page 21, replace the Abstract with the following:

--In a doppler type ultrasonic flow meter (1) for measuring the volumetric flow of a measurement object fluid (10) using doppler shift of ultrasound, [[1]] a pair of ultrasonic transducers (3a, 3b) perform transmission of ultrasound and reception of an ultrasound echo resulting from the ultrasound being reflected. The ~~1 pair of~~ ultrasonic transducers (3a, 3b) are disposed on an extension line of a measurement line ML for performing measurement of doppler shift, symmetrical about the center axis (5) of a pipe (2) with a measurement object fluid (10) flowing through its inside, and on the outside of the pipe (2). A flow profile for the side opposite, with respect to the center axis (5) of the pipe (2), the side on which the respective ultrasonic transducer (3a, 3b) is disposed is used for the calculation of the volumetric flow of the measurement object fluid (10).--

NEW § 371 APPLICATION

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Delete pages 22-25.